

Freeform Search

Database:	US Pre-Grant Publication Full-Text Database	
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Term:	L13 L6 and @ad<20031203	
Display:	20	Documents in Display Format: CIT
		Starting with Number 1
Generate:	<input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image	

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Search History

DATE: Tuesday, September 18, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
side by side			
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
<u>L14</u>	L13 L6 and @ad<20031203	29	<u>L14</u>
<u>L13</u>	L12 and ((hermetic\$6 or "moisture-tight" or dry or "barrier seal") near8 (blister or cartridge or capsule or container))	19	<u>L13</u>
<u>L12</u>	L11 and (foil or laminate or sheet)	86	<u>L12</u>
<u>L11</u>	L8 same ("dry powder" or particle or particulate or granule or grain or powder)	238	<u>L11</u>
<u>L10</u>	L9	167	<u>L10</u>
<u>L9</u>	L8 same ("dry powder" or particle or particulate or granule or grain)	167	<u>L9</u>
<u>L8</u>	tiotropium	1350	<u>L8</u>
DB=PGPB,USPT; PLUR=YES; OP=OR			
<u>L7</u>	L6 and @ad<20031203	10	<u>L7</u>
<u>L6</u>	L5 and tiotropium	11	<u>L6</u>
<u>L5</u>	(424/46 and 424/489).ccls.	252	<u>L5</u>
<u>L4</u>	((Alf near Niemi) AND @pd>20070620) AND @pd>20070706) AND @pd>20070818	0	<u>L4</u>
<u>L3</u>	((Sven near Calander) AND @pd>20070620) AND @pd>20070706) AND @pd>20070818	0	<u>L3</u>
<u>L2</u>	((Mattias near Myrman) AND @pd>20070528) AND @pd>20070706) AND @pd>20070818	0	<u>L2</u>

L1 (((Thomas near Nilsson) AND @pd>20070620) AND @pd>20070706) AND
@pd>20070817) AND @pd>20070818

1 L1

END OF SEARCH HISTORY

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
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(FILE 'HOME' ENTERED AT 12:02:17 ON 18 SEP 2007)

FILE 'CAPLUS, MEDLINE, USPATFULL, EMBASE, BIOSIS' ENTERED AT 12:03:48 ON
18 SEP 2007

L1 280 S TIOTROPIUM (S) (POWDER OR PARTICULATE OR PARTICLE OR GRAIN OR
L2 75 S L1 (S) (BLISTER OR CARTRIDGE OR CAPSULE)
L3 0 S L2 (S) ((FOIL OR LAMINATE OR SHEET) (5A) (SEAL OR HERMETIC?
L4 7 S L2 AND ((FOIL OR LAMINATE OR SHEET) (5A) (SEAL OR HERMETIC?
L5 7 DUP REM L4 (0 DUPLICATES REMOVED)

=> d que L1

L1 280 SEA TIOTROPIUM (S) (POWDER OR PARTICULATE OR PARTICLE OR GRAIN
OR GRANULE)

=> d que L3

L1 280 SEA TIOTROPIUM (S) (POWDER OR PARTICULATE OR PARTICLE OR GRAIN
OR GRANULE)
L2 75 SEA L1 (S) (BLISTER OR CARTRIDGE OR CAPSULE)
L3 0 SEA L2 (S) ((FOIL OR LAMINATE OR SHEET) (5A) (SEAL OR HERMETIC?
OR (MOISTURE(W) TIGHT) OR DRY))

=> d que L4

L1 280 SEA TIOTROPIUM (S) (POWDER OR PARTICULATE OR PARTICLE OR GRAIN
OR GRANULE)
L2 75 SEA L1 (S) (BLISTER OR CARTRIDGE OR CAPSULE)
L4 7 SEA L2 AND ((FOIL OR LAMINATE OR SHEET) (5A) (SEAL OR HERMETIC?
OR (MOISTURE(W) TIGHT) OR DRY))

L5 ANSWER 1 OF 7 USPATFULL on STN
TI Inhalable tiotropium and container therefor
AB A medical product suitable for storing and delivering a pre-metered dose of tiotropium, devices containing the same, and methods of using the same.

ACCESSION NUMBER: 2007:120454 USPATFULL
TITLE: Inhalable tiotropium and container therefor
INVENTOR(S): Zierenberg, Bernd, Bingen am Rhein, GERMANY, FEDERAL REPUBLIC OF
Memmesheimer, Holger, Ockenheim, GERMANY, FEDERAL REPUBLIC OF
Lunkenheimer, Christine, Ingelheim, GERMANY, FEDERAL REPUBLIC OF
Calander, Sven, Strangnas, SWEDEN
Niemi, Alf, Strangnas, SWEDEN
Nilsson, Thomas, Mariefred, SWEDEN
Myrman, Mattias, Stockholm, SWEDEN
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007104655	A1	20070510
APPLICATION INFO.:	US 2006-448765	A1	20060608 (11)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2004-834037, filed on 29 Apr 2004, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2003-3269	20031203
	SE 2003-3570	20031222
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., SUITE 800, WASHINGTON, DC, 20037, US	
NUMBER OF CLAIMS:	48	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	1264	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L5 ANSWER 2 OF 7 USPATFULL on STN
TI Medical product containing tiotropium
AB The invention discloses a medical product that may be used in a treatment of respiratory disorders.
ACCESSION NUMBER: 2007:23157 USPATFULL
TITLE: Medical product containing tiotropium
INVENTOR(S): Nilsson, Thomas, Mariefred, SWEDEN
Myrman, Mattias, Tyreso, SWEDEN
Calander, Sven, Straengnaes, SWEDEN
Niemi, Alf, Straengnaes, SWEDEN
Zierenberg, Bernd, Bingen am Rhein, GERMANY, FEDERAL REPUBLIC OF
Memmesheimer, Holger, Ockenheim, GERMANY, FEDERAL REPUBLIC OF
Lunkenheimer, Christine, Ingelheim, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007020198	A1	20070125

APPLICATION INFO.: US 2006-448766 A1 20060608 (11)
RELATED APPLN. INFO.: Continuation of Ser. No. US 2004-921192, filed on 19
Aug 2004, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2003-3269	20031203
	SE 2003-3571	20031222
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., SUITE 800, WASHINGTON, DC, 20037, US	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1-35	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	1023	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 7 USPATFULL on STN

TI Medical product

AB The invention discloses a medical product for use in a treatment of respiratory disorders, and comprises a metered dose of a tiotropium dry powder formulation, directly loaded and sealed into a container made to act as a dry high barrier seal to prevent the capture and ingress of moisture into the tiotropium powder. The dose of tiotropium is further adapted for inhalation and the container is so tight that the efficacy of the dose when delivered is unaffected by moisture. In a further aspect of the invention a type of inhaler is illustrated, which may accept at least one sealed, moisture-tight container of a dose of tiotropium, to deliver the dose with a consistent fine particle dose, over the expected shelf life of the product.

ACCESSION NUMBER: 2006:300973 USPATFULL

TITLE: Medical product

INVENTOR(S): Zierenberg, Bernd, Bingen am Rhein, GERMANY, FEDERAL
REPUBLIC OF
Memmesheimer, Holger, Ockenheim, GERMANY, FEDERAL
REPUBLIC OF
Lunkenheimer, Christine, Ingelheim, GERMANY, FEDERAL
REPUBLIC OF
Calander, Sven, Strangnas, SWEDEN
Niemi, Alf, Strangnas, SWEDEN
Nilsson, Thomas, Mariefred, SWEDEN
Myrman, Mattias, Stockholm, SWEDEN

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006257327	A1	20061116
APPLICATION INFO.:	US 2006-448773	A1	20060608 (11)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2003-728986, filed on 8 Dec 2003, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2003-3269	20031203
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., SUITE 800, WASHINGTON, DC, 20037, US	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1-43	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	555	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 7 USPATFULL on STN

TI Medical product

AB The invention discloses a medical product for use in a treatment of respiratory disorders, and comprises a metered dose of a tiotropium dry powder formulation, directly loaded and sealed into a container made to act as a dry high barrier seal to prevent the capture and ingress of moisture into the tiotropium powder. The dose of tiotropium is further adapted for inhalation and the container is so tight that the efficacy of the dose when delivered is unaffected by moisture. In a further aspect of the invention a type of inhaler is illustrated, which may accept at least one sealed, moisture-tight container of a dose of tiotropium, to deliver the dose with a consistent fine particle dose, over the expected shelf life of the product.

ACCESSION NUMBER: 2005:144904 USPATFULL

TITLE: Medical product

INVENTOR(S): Nilsson, Thomas, Mariefred, SWEDEN
Myrman, Mattias, Stockholm, SWEDEN
Calander, Sven, Strangnas, SWEDEN
Niemi, Alf, Strangnas, SWEDEN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005124644	A1	20050609
APPLICATION INFO.:	US 2003-728986	A1	20031208 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2003-3269	20031203
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314, US	
NUMBER OF CLAIMS:	44	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	609	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 7 USPATFULL on STN

TI Medical product containing tiotropium

AB The invention discloses a medical product that may be used in a treatment of respiratory disorders.

ACCESSION NUMBER: 2005:143751 USPATFULL

TITLE: Medical product containing tiotropium

INVENTOR(S): Nilsson, Thomas, Mariefred, SWEDEN
Myrman, Mattias, Stockholm, SWEDEN
Calander, Sven, Strangnas, SWEDEN
Niemi, Alf, Strangnas, SWEDEN

PATENT ASSIGNEE(S): Microdrug AG, Hergiswil NW, SWITZERLAND (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005123486	A1	20050609
APPLICATION INFO.:	US 2004-921192	A1	20040819 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2003-3571	20031222
	SE 2003-3269	20031203
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	

LEGAL REPRESENTATIVE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940
DUKE STREET, ALEXANDRIA, VA, 22314, US
NUMBER OF CLAIMS: 35
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1047
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 7 USPATFULL on STN

TI Pre-metered dry powder inhaler for moisture-sensitive medicaments

AB The invention discloses a dry powder inhaler for use in a treatment of
respiratory disorders.

ACCESSION NUMBER: 2005:141305 USPATFULL

TITLE: Pre-metered dry powder inhaler for moisture-sensitive
medicaments

INVENTOR(S): Nilsson, Thomas, Mariefred, SWEDEN

Myrman, Mattias, Stockholm, SWEDEN

Calander, Sven, Strangnas, SWEDEN

Niemi, Alf, Strangnas, SWEDEN

PATENT ASSIGNEE(S): Microdrug AG, Hergiswil NW, SWITZERLAND, CH-6052
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005121032	A1	20050609
APPLICATION INFO.:	US 2004-933219	A1	20040903 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2003-3569	20031222
	SE 2003-3269	20031203
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314, US	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	1042	

L5 ANSWER 7 OF 7 USPATFULL on STN

TI Inhalable tiotropium and container therefor

AB A medical product suitable for storing and delivering a pre-metered dose
of tiotropium, devices containing the same, and methods of using the
same.

ACCESSION NUMBER: 2005:141300 USPATFULL

TITLE: Inhalable tiotropium and container therefor

INVENTOR(S): Nilsson, Thomas, Mariefred, SWEDEN

Myrman, Mattias, Stockholm, SWEDEN

Calander, Sven, Strangnas, SWEDEN

Niemi, Alf, Strangnas, SWEDEN

PATENT ASSIGNEE(S): Microdrug AG, Hergiswil NW, SWITZERLAND (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005121027	A1	20050609
APPLICATION INFO.:	US 2004-834037	A1	20040429 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	SE 2003-3269	20031203
	SE 2003-3570	20031222
DOCUMENT TYPE:	Utility	

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940
DUKE STREET, ALEXANDRIA, VA, 22314, US
NUMBER OF CLAIMS: 48
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1258
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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